



**UNITED STATES
NUCLEAR REGULATORY COMMISSION
ADVISORY COMMITTEE ON REACTOR SAFEGUARDS
WASHINGTON, DC 20555 - 0001**

January 08, 2020

MEMORANDUM TO: Ho K. Nieh, Director
Office of Nuclear Reactor Regulation

FROM: Scott W. Moore, Executive Director **/RA/**
Advisory Committee on Reactor Safeguards

SUBJECT: ACRS REVIEW OF NUSCALE POWER, LLC, DESIGN
CERTIFICATION APPLICATION - SAFETY EVALUATION WITH NO
OPEN ITEMS FOR CHAPTERS 2, 8 AND 12

During the 669th meeting of the Advisory Committee on Reactor Safeguards, December 4-6, 2019, the Committee considered the staff's safety evaluation with no open items for Chapter 2, "Site Characteristics and Site Parameters," Chapter 8, "Electric Power," and Chapter 12, "Radiation Protection," of the NuScale design certification application.

The Committee reviewed and voted to accept recommendations from individual members who were assigned as lead reviewers for each Chapter. The Committee decided that no further briefing by the staff is needed to support the Committee's review as it pertains to Chapters 2, 8 and 12 of the NuScale design certification application. The Committee plans to complete its review of the electric power systems during our review of Safety Evaluation Report Section 1.4.3.2, "Applicability of Topical Report TR 0815-16497-P-A, 'Safety Classification of Passive Nuclear Power Plant Electrical Systems'." The Committee requests a briefing by the staff on its finding in Section 1.4.3.2. The Committee will inform the Commission of its findings on these matters relative to the requirements of 10 CFR 52.53 in a subsequent letter.

Attachments:

1. Chapter 2, "Site Characteristics and Site Parameters" (ML20006G489)
2. Chapter 8, "Electric Power" (ML20006G575)
3. Chapter 12, "Radiation Protection" (ML20006G700)

References:

U. S. Nuclear Regulatory Commission, "NuScale Power, LLC, Design Certification Application – Safety Evaluation With No Open Items for Chapter 2, 'Site Characteristics and Site Parameters'," November 27, 2019 (ML19165A282).

U. S. Nuclear Regulatory Commission, “NuScale Power, LLC, Design Certification Application – Safety Evaluation With No Open Items for Chapter 8, ‘Electric Power’,” December 3, 2019 (ML19319A684).

U. S. Nuclear Regulatory Commission, “NuScale Power, LLC, Design Certification Application – Safety Evaluation With No Open Items for Chapter 12, ‘Radiation Protection’,” November 14, 2019 (ML19318E303).

Advisory Committee on Reactor Safeguards, “Proposed Focus Area Review Approach of the Advanced Safety Evaluation Report With No Open Items for the Design Certification Application of the NuScale Small Modular Reactor,” September 25, 2019 (ML19269B682).

cc: R. Taylor, NRR
A. Bradford, NRR
M. Dudek, NRR
P. Chowdhury, NRR
O. Tabatabai, NRR
G. Tesfaye, NRR

January 08, 2020

SUBJECT: ACRS REVIEW OF NUSCALE POWER, LLC, DESIGN
CERTIFICATION APPLICATION - SAFETY EVALUATION WITH NO
OPEN ITEMS FOR CHAPTERS 2, 8 AND 12

Package No.: ML20006G325**Accession No: ML20006G420****Publicly Available Y****Sensitive N****Viewing Rights:** ☒ NRC Users or ☐ ACRS Only or ☐ See Restricted distribution *via email

OFFICE	ACRS/TSB	SUNSI Review	ACRS/TSB	ACRS
NAME	MSnodderly	MSnodderly	LBurkhart	SMoore
DATE	1/2/2020	1/2/2020	1/6/2020	1/8/2020

OFFICIAL RECORD COPY